

Applicant: T. Allan Hamilton
Serial No.: 09/135,154
Filing Date: August 17, 1998
Docket No.: ZIL-254 (formerly CLB5-B73)

Listing of Claims

Claims 1-49 have been canceled.

50. (Previously presented) A communications device, comprising:

- a data input;
- a data output;
- an infrared signal transmitter;
- an infrared signal receiver;

a signal processor that supplies electrical signals to the infrared signal transmitter for transmission of data received at the data input as infrared signals, and that receives electrical signals from the infrared signal receiver for providing data received in an infrared signal to the data output, said signal processor including integrated signal detection circuitry connected to receive an output from the infrared signal receiver to generate a power-up signal when an infrared signal is received by the infrared signal receiver;

a controller of the infrared signal transmitter, the infrared signal receiver and the signal processor; and

a power supply including a battery power source that provides operating power to the infrared signal receiver and the power-up signal generation circuit of the signal processor but not remaining portions of the signal processor or the infrared signal transmitter when in a stand-by mode to additionally provide power to the remaining portions of the signal processor, the controller and the infrared signal transmitter.

51. (Previously presented) An IrDA transceiver module having a low-power mode and a full-power mode, comprising:

an IrDA discovery signal detection circuit that generates a power-up signal upon detection of a 9600 baud IrDA discovery signal, the power-up signal causing the operation of the IrDA transceiver module to switch from the low-power mode to the full-power mode.

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52. (Previously amended) The IrDA transceiver module of Claim 51, wherein the low-power mode is a low-power listening mode, and wherein said switching from the low-power mode to the full-power mode enables the IrDA transceiver module to generate an IrDA transmission.

53. (Previously presented) The IrDA transceiver module of Claim 51, wherein the IrDA transceiver module includes only one infrared receiver.

54. (Previously presented) The IrDA transceiver module of Claim 53, further comprising:

a comparator, the IrDA discovery signal detection circuit causing the comparator to switch from a first low-power state to a second high-power state upon detection of the 9600 baud IrDA discovery signal.

55. (Previously presented) The IrDA transceiver module of Claim 54, wherein the comparator has a power lead, the comparator receiving more power through the power lead in the full-power mode than in the low-power mode.

56. (Previously presented) The IrDA transceiver module of Claim 51, wherein the switching from the low-power mode to the full-power mode enables full IrDA signal transmission and receipt.

57. (Previously presented) The IrDA transceiver module of Claim 51, wherein the 9600 baud discovery signal is transmitted from an appliance, and wherein the switching from the low-power mode to the full-power mode enables the IrDA transceiver module to reply to the appliance by transmitting an infrared signal to the appliance.

58. (Previously presented) An IrDA transceiver comprising an infrared receiver, an infrared transmitter and an IrDA discovery signal detection circuit, the IrDA transceiver having a low-power standby mode and a full-power mode, wherein

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detection of a 9600 baud signal by the IrDA discovery signal detection circuit causes the IrDA transceiver to switch from the low-power standby mode to the full-power mode, said detection of the 9600 baud signal causing the IrDA transceiver to be enabled for full infrared signal receipt.

59. (Previously Presented) An IrDA transceiver comprising:

infrared transmitter circuitry;

infrared receiver circuitry; and

means for enabling full infrared signal transmission and receipt upon detection of a 9600 baud IrDA discovery signal.

60. (Previously Presented) The IrDA transceiver of Claim 59, wherein the means detects the 9600 baud IrDA discovery signal and thereupon increases an amount of power supplied to the infrared receiver circuitry.